

FIG. 1A

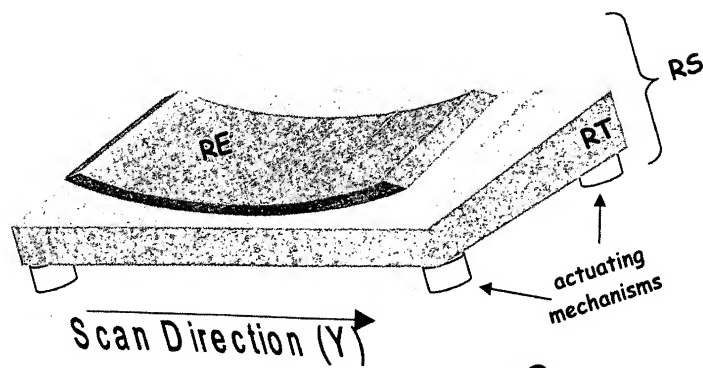
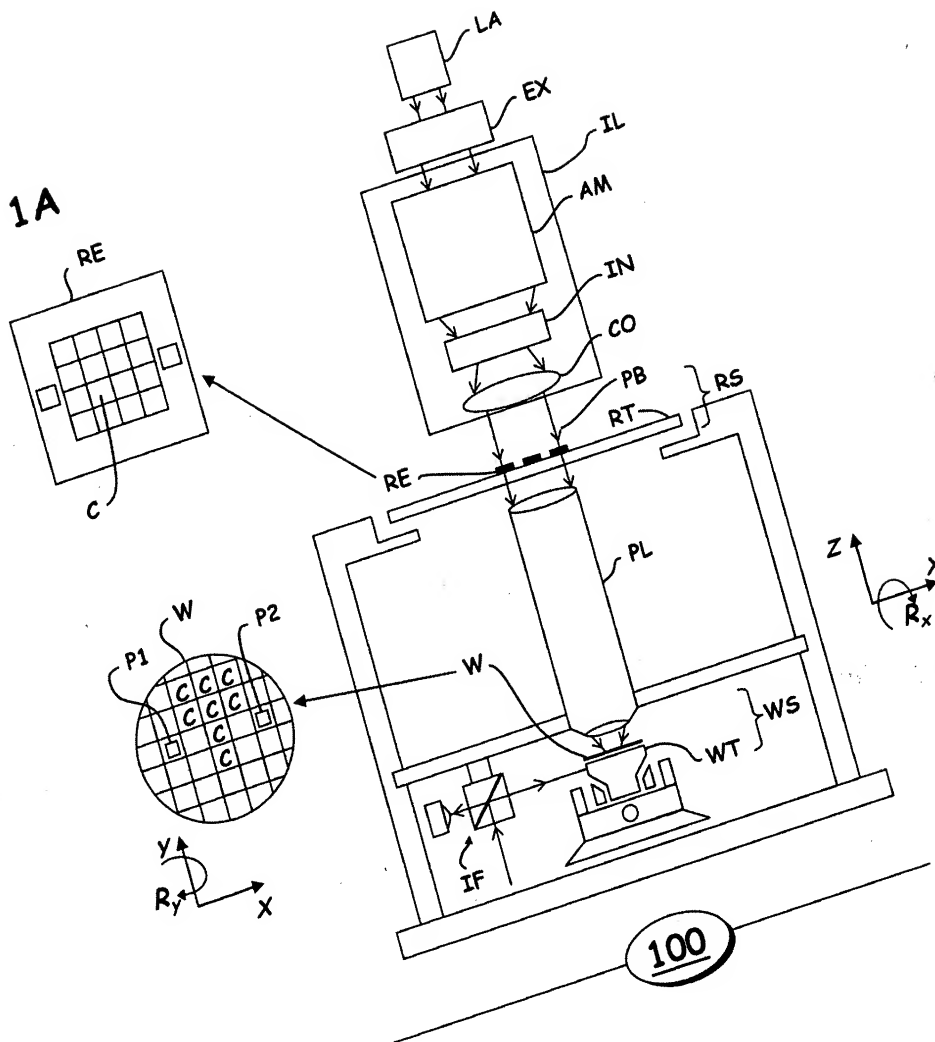


FIG. 1B

FIG. 2A

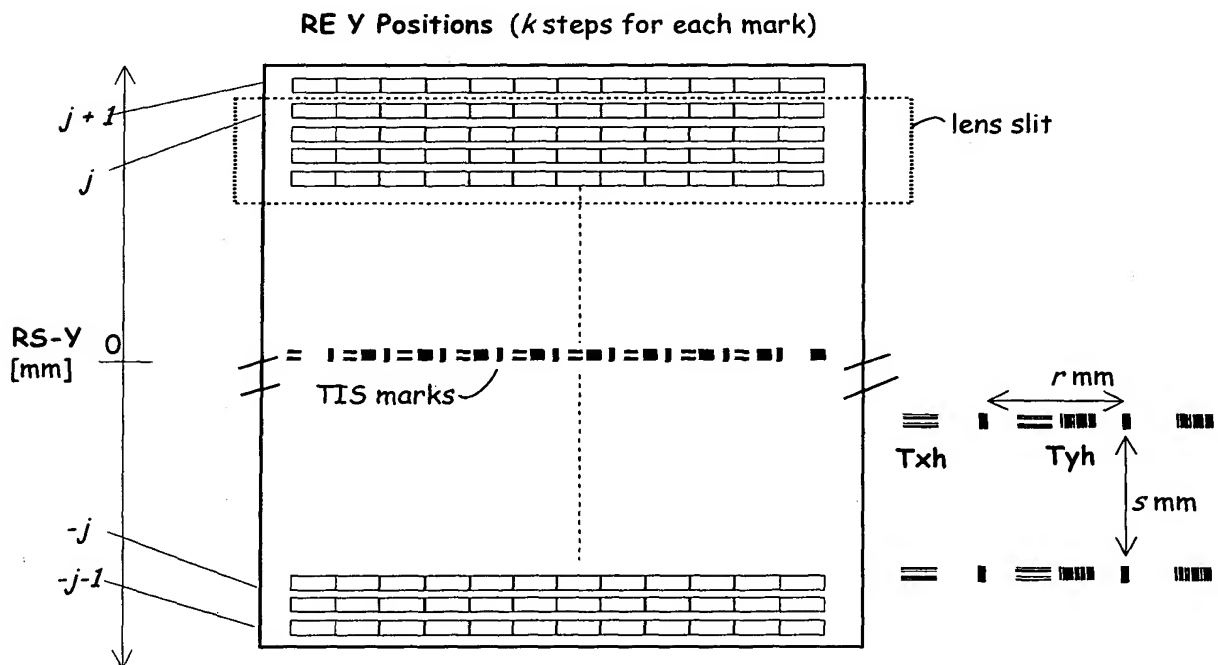
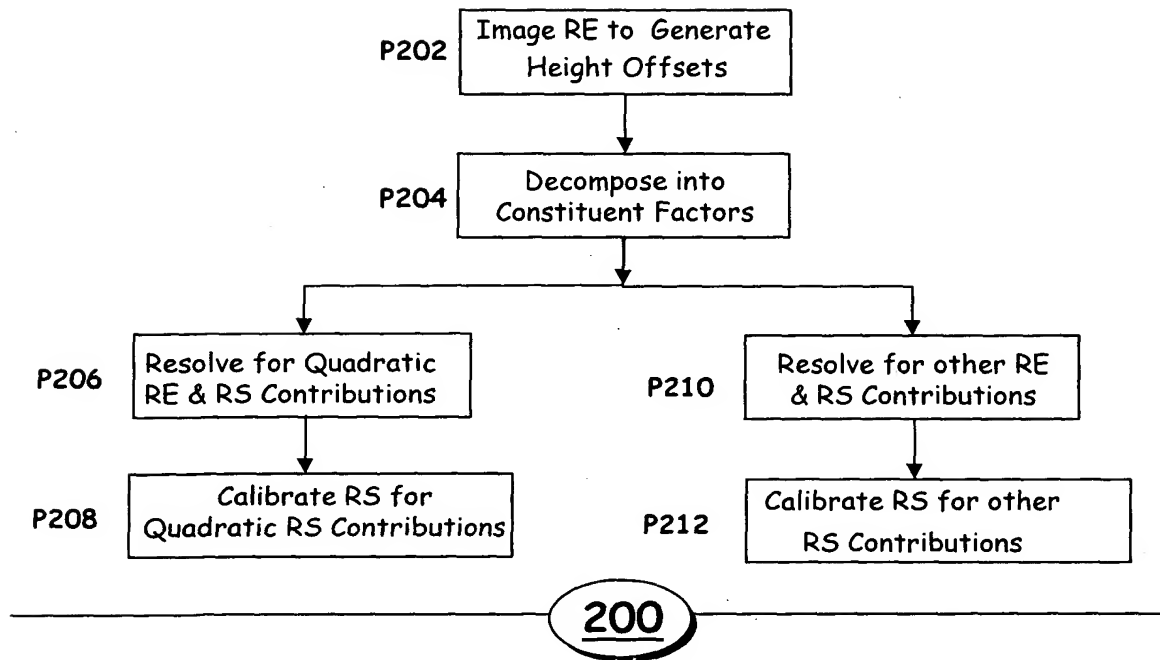
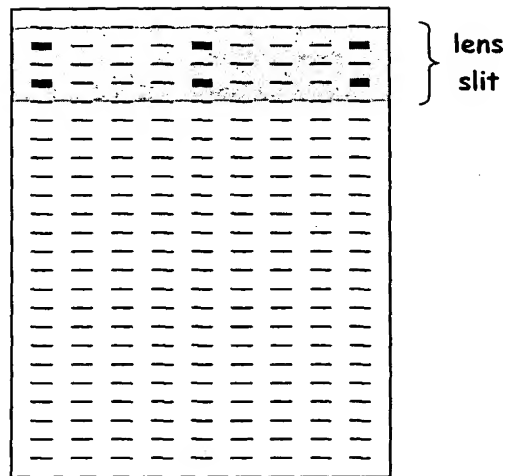
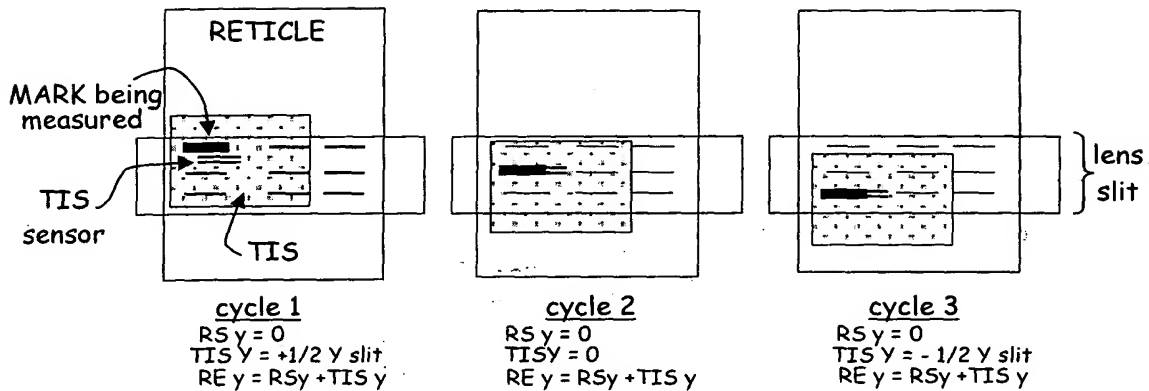


FIG. 2B

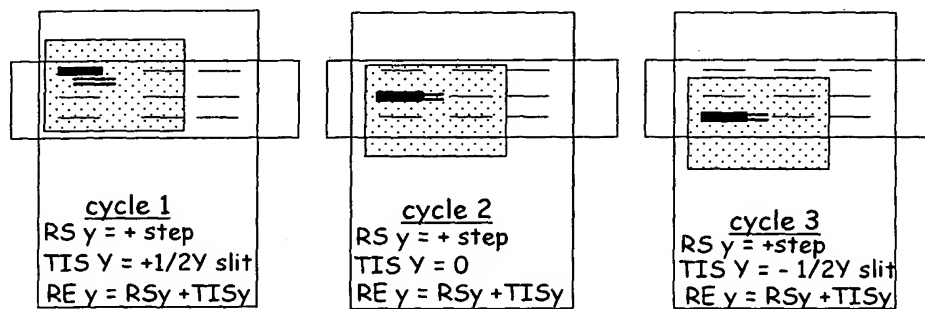
Measure a set of these marks in the slit using TIS:



Iteration A:



Iteration B (move Reticle Stage RS)

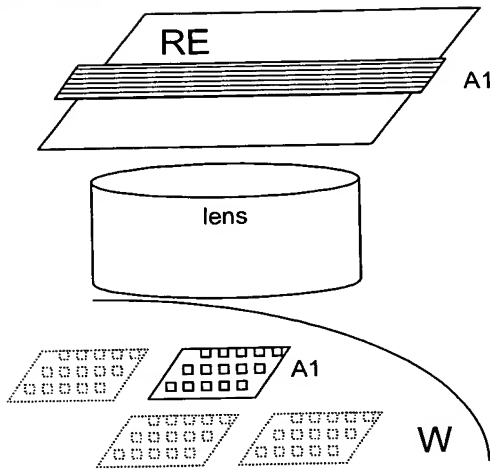


This provides a set of Z_{meas} values at:

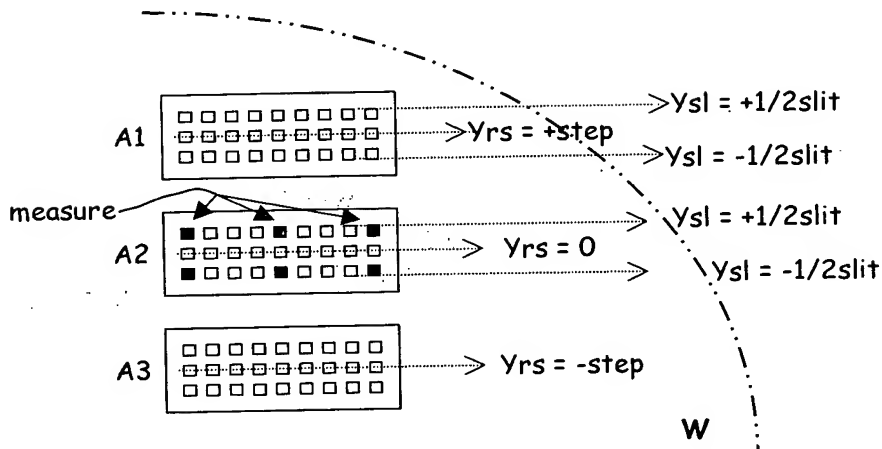
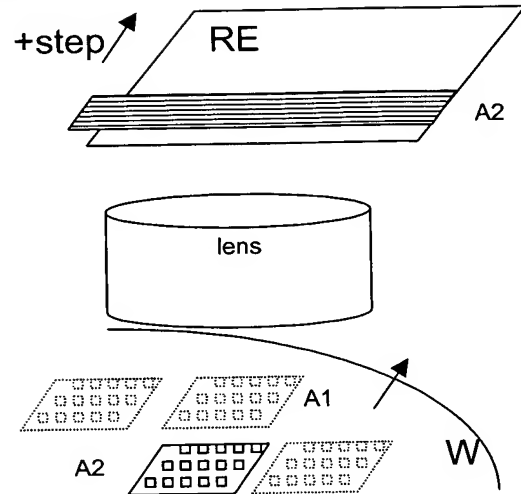
$Z(x = \text{left}, Y_{rs} = 0, Y_{sl} = +1/2 \text{slit})$	$Z(x = \text{left}, Y_{rs} = +step, Y_{sl} = +1/2 \text{slit})$
$Z(x = 0, Y_{rs} = 0, Y_{sl} = +1/2 \text{slit})$	$Z(x = 0, Y_{rs} = +step, Y_{sl} = +1/2 \text{slit})$
$Z(x = \text{right}, Y_{rs} = 0, Y_{sl} = +1/2 \text{slit})$	$Z(x = \text{right}, Y_{rs} = +step, Y_{sl} = +1/2 \text{slit})$

FIG. 2C

Iteration A:



Iteration B:



This provides a set of Zmeas values at:

$Z (x = \text{left}, Yrs = 0, Ysl = +1/2\text{slit})$	$Z (x = \text{left}, Yrs = 0, Ysl = -1/2\text{slit})$
$Z (x = 0, Yrs = 0, Ysl = +1/2\text{slit})$	$Z (x = 0, Yrs = 0, Ysl = -1/2\text{slit})$
$Z (x = \text{right}, Yrs = 0, Ysl = +1/2\text{slit})$	$Z (x = \text{right}, Yrs = 0, Ysl = -1/2\text{slit})$

Target field A1 provides the following:

$Z (x = \text{left}, Yrs = +\text{step}, Ysl = +1/2\text{slit})$
$Z (x = 0, Yrs = +\text{step}, Ysl = +1/2\text{slit})$
$Z (x = \text{right}, Yrs = +\text{step}, Ysl = +1/2\text{slit})$

FIG. 2D

3A

RE

RT

Scan Direction (Y)

actuating mechanisms

RS

Coordinate system: X, Y, Z, R_x

Arrows: A, B, C

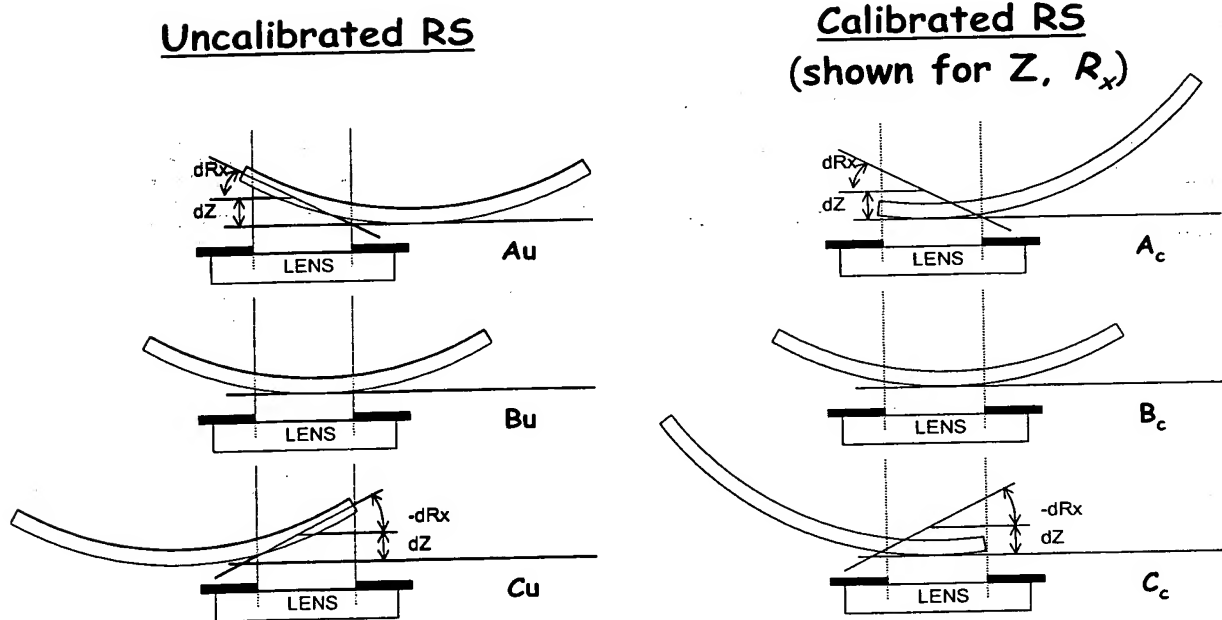


FIG. 3B

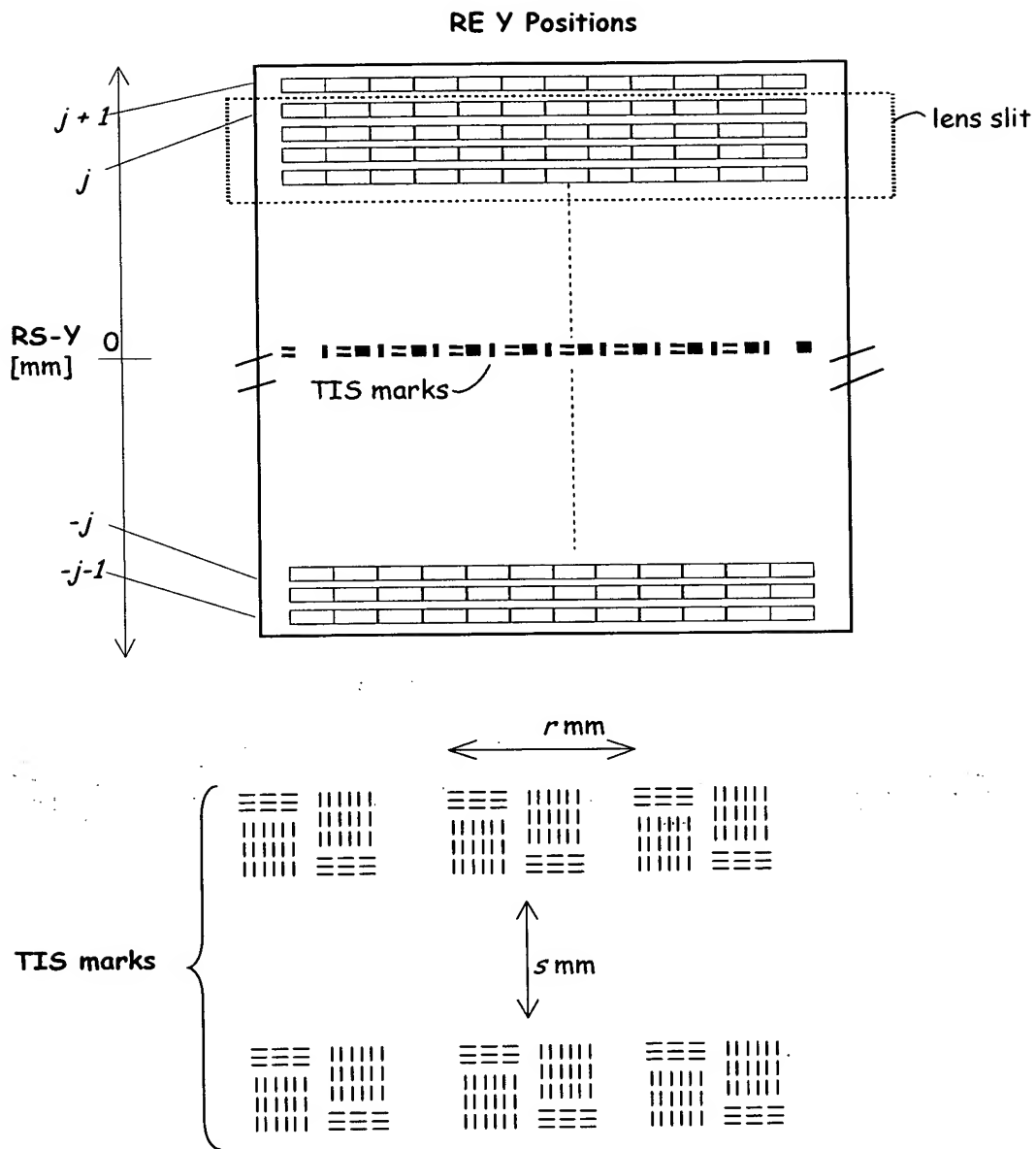


FIG. 4